

Colours which the component Powders ( Orpiment, Purple, Bise, and *Viride Aeris* ) have in the same Sun shine, you must acknowledge by this Experiment, as well as by the former, that perfect whiteness may be compounded of Colours.

From what has been said it is also evident, that the whiteness of the Sun's Light is compounded of all the Colours wherewith the several sorts of rays whereof that Light consists, when by their several refrangibilities they are separated from one another, do tinge Paper or any other white Body whereon they fall. For those Colours by Prop. 2. are unchangeable, and whenever all those rays with those their Colours are mixt again, they reproduce the same white Light as before.

PROP. VI. PROB. II.

*In a mixture of primary Colours, the quantity and quality of each being given, to know the Colour of the compound.*

Fig. 11. With the Center O and Radius OD describe a Circle ADF, and distinguish its circumference into seven parts DE, EF, FG, GA, AB, BC, CD, proportional to the seven musical Tones or Intervals of the eight Sounds, *Sol, la, fa, sol, la, mi, fa, sol*, contained in an Eight, that is, proportional to the numbers  $\frac{1}{9}$ ,  $\frac{1}{10}$ ,  $\frac{1}{10}$ ,  $\frac{1}{9}$ ,  $\frac{1}{10}$ ,  $\frac{1}{10}$ ,  $\frac{1}{9}$ . Let the first part DE represent a red Colour, the second EF orange, the third FG yellow, the fourth GH green, the fifth AB blue, the sixth BC indico, and the seventh CD violet. And conceive that these are all the Colours of uncompounded Light gradually passing

passing into one another by Prisms; the circle being divided into seven parts, the whole being the Sun's coloured Light, be all degrees of yellow and orange, from the mean between orange and green of yellow, to the gravity of the Air, of gravity of the Air, and CD respectively let Circles pass through each Colour in the circle p proportioning rays in the the number of the and so of the rest of all those Circles be Z; and from the Z to the circumference the place of the p the Colour arising from the mixture of the Colours in the given proportion to the that is, to its distance from the middle between the two extremes shall be the best yellow, towards F or G, the yellow, v ly be a yellow, v fall upon the circle and florid in the way between the